



The Antimicrobial Activity of Essential Oils and Extraction of Medicinal Plants Galium Verum, Echinacea, Garlic, Turmeric, Corn Silk, Raspberry, Red John's Wort, St. John's Wort and Ginger and Use as Adjuvant Therapy in the Treatment of Cancer of the Lymphatic System

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Abstract

Essential oils derived from plants or their secondary metabolism, which are formed by a group of cells or fibers placed in stems and leaves of plants. Essential oils are isolated with plant material by via several methods, of which the most widely used method of distillation. These oils represent a mixture of terpenoids as the main component, and specific monopeneni sekviperteni although not excluded the presence of diterpenes. Essential oils may be characterized based on the presence of their main components. The discovery and exploration of essential oils constitute the subject of much research for many scientists and researchers.

The Experimental Part and Method of Operation

The achievement of the aforementioned objectives in this study, were been researched with these herbs and their essential oils as adjuvant treatments in the treatment of cancer of the lymphatic system of 150 respondents aged 20 years, 20-40 years and respondents over 60 years [1] (Table1,2).

- I. Galium verum Echinacea
- II. Garlic, Turmeric,
- III. Corn silk, Raspberry,
- IV. Red John's wort St. John's Wort
- V. Ginger

Table 1: Total number of respondents.

150	
Man	Women
67	83
44,7 %	55,3 %

Table 2: Total number of respondents.

150			
To 20 year	From 20 to 40 years	From 40 to 60 years	Over 60 years
22	45	56	27
14,7 %	30%	37,3 %	18%

Results Discussion

Does the correct use of Galium verum, Echinacea, Garlic, Turmeric, corn silk, Raspberry, Red John's wort St. John's Wort and Ginger have achieved the expected results?

Table 3 Of the total number of respondents, we find that with proper use of Galium verum, Echinacea, Garlic, Turmeric, Corn silk, Raspberry, Red John's wort St. John's Wort and Ginger, 71.3 persons have achieved the expected results. Whereas 20.7% of respondents partly achieved the expected results. 8% of respondents did not achieved the expected results in the proper use of Galium verum, Echinacea, Garlic, Turmeric, Corn silk, Raspberry, Red John's wort St. John's Wort and Ginger in order to improve health status in cancer [2]. On the classification of respondent's male and female, in this

matter in both sexes in the proper use of Galium verum, Echinacea, Garlic, Turmeric, Corn silk, Raspberry, Red John's wort St. John's Wort and Ginger have achieved the expected results. And while in both cases also, there are volunteers with proper use showed a partial effect or no effect. In the classification of respondents by age, we can conclude that among those 40 to 60 years reported that they had achieved positive results with these medicinal plants. Among subjects 20 to 40 years has the highest number of persons who reported that they had achieved partial results in the proper use of Galium verum, Echinacea, Garlic, Turmeric, Corn silk, Raspberry, Red John's wort St. John's Wort and Ginger, in addition to most of them that They said they fully achieved the expected results. Most people over 60 years have achieved the expected results, but some of them answered partly not. Whereas, among those 20 years and over 60 years in common is that the same number of respondents reported that they have achieved the expected results in the proper use of these medicinal plants [3,4].

Table 3.

	Yes	No	Partially
Man	46	6	15
Women	61	6	16
%	71,3 %	8%	20,7 %

Have you had any Allergic Reactions or Side Effects in Using Some of these Plants in Addition to the Treatment of Cancer of the Lymphatic System?

When it comes to allergic reactions to these medicinal plants, the total number of respondents 76.7% said they did not experience allergic reactions. Only 8.6% of respondents appeared partial allergic reactions. And 14.7% of respondents said that the use of these medicinal plants had symptoms of allergy. In male and female respondents, the percentage of those who failed allergic reactions is same. The percentage of women who did not appear any allergic reactions is increasing, while males notice small number of persons who appeared partly allergic symptoms (Table 4). In the second question, the number of respondents we can see that in people 40 to 60 years is the highest percentage of allergic reactions. Most of the respondents those up to 20 years, between 20 to 40 and people over 60 years did not show an allergic reaction to the use of these medicinal plants, so their rates are roughly the same. A relative of full and partial allergic reactions in people between 20 to 40 years is the highest percentage of partial allergic reaction to these medicinal plants [5].

Table 4.

	Yes	No	Partially
	15	1	6
To 20 year	28	4	13
From 20 to 40 years	42	6	8
From 40 to 60 years	22	1	4
Over 60 years	71,3 %	8%	20,7 %
%			

Are you aware that some of these Plants are Contraindicated for use with Certain Medications to treat Chronic Conditions (Pressure, Heart Disease, etc.)?

Table 5 In the context of information among respondents that these medicinal plants are contraindicated for use in treating chronic diseases, most of the respondents 44% said they are informed in this regard. Not informed 34% and partially informed 22% of respondents. In female level of information is greater, compared to males [6]. Among persons between 40 to 60 years is equal to the number of people who are informed and who are not informed about kontraindikacionite effects from taking Galium verum, Echinacea, Garlic, Turmeric, Corn silk, Raspberry, Red John's wort St. John's Wort and Ginger in chronic diseases. People over 60 years of age have the lowest percentage of partial information on the matter. And people over 20 years have the lowest percentage of full awareness kontraindikacionite effects (Table 6) [7,8].

Table 5.

	Yes	No	Partially
Man	11	51	5
Women	11	64	8
%	14,7 %	76,7 %	8,6 %

Table 6.

	Yes	No	Partially
	2	18	2
To 20 year	6	35	4
From 20 to 40 years	12	38	6
From 40 to 60 years	3	22	2
Over 60 years	14,7 %	76,7 %	8,6 %
%			

Would you Rather Prefer to undergo Vocational Educated Persons (Herbalists) or Lack of Professional Competence that Claim to have Experience in the Application of Herbal Preparations and Herbal Remedies?

Table 7 Of the total number of pupils of the tenth question, 99% said they want education to implement vocational educational entities (phototherapeutics), and only one percent of respondents said that additional education can be carried out and an incompetent person / person without expert education [9].

Table 7.

	Vocational education	Vocational education and training
Man	67	0
Women	82	1
%	99%	1%

Conclusion

From the survey of this paper, we come to the conclusion that in Macedonia almost all of citizens are informed with Galium verum, Echinacea, Garlic, Turmeric, Corn silk, Raspberry, Red

John's wort St. John's Wort and Ginger and their health benefits. Also, we can conclude that the majority of respondents through the antimicrobial activity of these medicinal plants achieved the expected results. Most of the respondents are aware of the side effects under certain conditions, such as allergic reactions, pregnancy, some autoimmune diseases and others. We conclude that the respondents said that detailed information on the use, application, correct dosages, contraindications and side effects. From the total number of respondents (male / female) in respect of all age limits have said that education would like to receive the professional, competent people who in their view are better suited to do the same. This paper develops a really interesting and necessary subject for human health, that the whole despite a theoretical and practical application.

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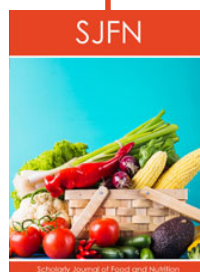
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